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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/842,346	04/25/2001	Robert Roy Keller JR.	70550	6975
22242	7590 06/30/2005		EXAMINER	
FITCH EVEN TABIN AND FLANNERY 120 SOUTH LA SALLE STREET			BROWN, VERNAL U	
SUITE 1600				PAPER NUMBER
CHICAGO,	IL 60603-3406		2635	

Please find below and/or attached an Office communication concerning this application or proceeding.

		<b>⅓</b>			
	Application No.	Applicant(s)			
Office Assists Commence	09/842,346	KELLER ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Vernal U. Brown	2635			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply of NO period for reply is specified above, the maximum statutory period with the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 21 M	arch 2005.				
·					
<u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
•	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims	•				
4)⊠ Claim(s) 1 and 3-21 is/are pending in the appli	cation.				
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,3-21</u> is/are rejected.	;	·			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	r.	•			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1.☐ Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents		on No			
3.☐ Copies of the certified copies of the prior	•				
application from the International Bureau	ı (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachment(s)	: <b>-</b>				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date.					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal P	atent Application (PTO-152)			
Paper No(s)/Mail Date	6)  Other:				

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#### **DETAILED ACTION**

This action is responsive to amendment filed March 21, 2005.

### Response to Amendment

The examiner has acknowledged the amended claims 1, 8, 10, and 16.

## Response to Arguments

Applicant's arguments filed March 21, 2005 have been fully considered but they are not persuasive.

Regarding applicant's argument regarding the signal configuration setting comprising a code to be transmitted by the transmitter, the examiner interpret the configuration setting of the transmitter signals to be the selection of the transmitter signal frequency and modulation code. Tsui teaches defining the signal configuration (col. 2 lines 54-61). The signal configuration setting includes a code because the transmitter is a remote control for a garage door opener (col. 3 lines 5-7) and the garage door is open when the appropriate signal (code) is transmitted to the garage door receiver (col. 3 lines 7-12). The claims do not recite that the key input alone define the code but merely states that adjusting the keys allow the defining of the code. This lead to the interpretation according to Tsui to adjust keys to receive signal to define codes and configuration settings.

Regarding applicant's argument regarding the switches on page 7, the claims does not require the switches to be different.

Regarding applicant's argument regarding the combination of the references of Tsui U.S patent 6249673 and Tsui U.S Patent 6556813. The reference of Tsui (U.S Patent 6556813) is relied upon for disclosing the use of multi-position switch for defining a code to be transmitted

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(col. 1 lines 56-65). The reference of Tsui (U.S Patent 6556813) also teaches the use of the switches to recall from the memory the parameters for defining the signal configuration to be transmitted by the transmitter (col. 6 lines 23-33). The disclosure of Tsui (U.S Patent 6556813) regarding the use of DIP switches is not a teaching away from the invention as claimed but a presentation of an alternative to the manual selection of the transmitter transmitting parameters.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 4-5, and 8-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Tsui U.S patent 6249673.

Regarding claim 1, Tsui teaches a transmitter for transmitting security codes at a plurality of modulations and frequencies (col. 2 lines 54-58) comprising:

a plurality user manipulatable signal configuration switches (S<sub>1</sub>-S<sub>8</sub>) which are adjusted by an operator by to select signal configuration settings for transmitter signals (col. 6 lines 14-17), plurality of inputs switches (s1-s8, figure 3A); a controller (230) responsive to the signal configuration switches during a lean mode for storing the selected signal configurations in memory locations (col. 6 lines 19-22), a plurality of user inputs (switch buttons in figure 3A),

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apparatus responsive to user interaction with each transmit initiation key during an operate mode for retrieving the signal configuration associated therewith (col. 6 lines 19-22); and transmitter circuitry for transmitting the retrieved signal configuration received from the controller at a predetermined frequency (col. 6 lines 23-26). Tsui teaches the signal configuration setting includes a code because the transmitter is a remote control for a garage door opener (col. 3 lines 5-7) and the garage door is open when the appropriate signal (code) is transmitted to the garage door receiver (col. 3 lines 7-12).

Regarding claim 4, Tsui teaches the stored parameters are retrieved by the controller by pressing the corresponding switch (col. 6 lines 14-17). The switch therefore identifies the location of the signal configuration.

Regarding claim 5, Tsui teaches a single transmitter circuit (200) for transmitting the signal.

Regarding claims 8-9, Tsui teaches a method of programming a universal transmitter comprising a plurality of user maniputable signal configuration switches (S<sub>1</sub>-S<sub>8</sub>), the method comprising:

setting the plural of signal configuration switches signal configuration input to a first set of desired positions corresponding to a first signal configuration, storing the first signal configuration into a first memory location, setting the signal configuration input to a second set of desired positions corresponding to a second signal configuration, storing the second signal configuration into a second memory location, associating one of a plurality of user inputs with each stored signal configuration (col. 6 lines 1-14); and detecting user interaction with one of the plurality of user inputs and transmitting the stored signal configuration associated therewith (col.

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6 lines 15-17). Tsui teaches the signal configuration setting includes a code because the transmitter is a remote control for a garage door opener (col. 3 lines 5-7) and the garage door is open when the appropriate signal (code) is transmitted to the garage door receiver (col. 3 lines 7-12).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsui U.S patent 6249673 in view of Tsui U.S Patent 6556813.

Regarding claims 3 and 10, Tsui teaches a method of programming a universal transmitter comprising, setting signal configuration switches to a first set of desired positions corresponding to a first signal configuration, storing the first signal configuration into a first memory location, setting the signal configuration input to a second set of desired positions corresponding to a second signal configuration, storing the second signal configuration into a second memory location, associating one of a plurality of user inputs with each stored signal configuration (col. 6 lines 1-14); and receiving one of the plurality of user inputs and transmitting the stored signal configuration associated therewith (col. 6 lines 15-17). Tsui is however silent on teaching setting the multi position switches to a second set of positions

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corresponding to a second configuration position. Tsui (U.S Patent 6556813) teaches the use of the multi-position of multi-point dip switches to select the modulation and code pattern of the transmitter (col. 1 lines 56-65).

It would have been obvious to one of ordinary skill in the art to set the multi position switches to a second set of positions corresponding to a second configuration position in Tsui (U.S patent 6249673)as evidenced by Tsui (U.S Patent 6556813) because Tsui (U.S patent 6249673) suggests using switches to select the desired configuration of the transmitter and Tsui (U.S Patent 6556813) teaches the use of the multi-position of multi-point dip switches to select the modulation and code pattern of the transmitter.

Claims 6, 16-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsui U.S patent 6249673.

Regarding claim 6, Tsui teaches the transmitter operating at frequencies between 280 MHZ to 450 MHZ but is silent on teaching the transmitter operating at frequencies of 300 MHZ, 310 MHZ and 390 MHZ (col. 5 line 17). One skilled in the art recognizes that the frequencies of 300 MHZ, 310 MHZ and 390 MHZ are in the operable range of 310 MHZ and 390 MHZ.

It would have been obvious to one of ordinary skill in the art to operate the transmitter operating at frequencies of 300 MHZ, 310 MHZ and 390 MHZ in Tsui because Tsui suggests operating the transmitter in the frequency range of 280 MHZ to 450 MHZ and one skilled in the

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art recognizes that the frequencies of 300 MHZ, 310 MHZ and 390 MHZ are in the operable range of 310 MHZ and 390 MHZ.

Regarding claim 16, Tsui teaches a method of operating a code learning apparatus having a plurality of signal configuration switches, comprising steps of activating a learn mode of the code learning apparatus (col. 6 lines 1-6) and each set of the learnt parameters is retrieved by depressing a corresponding transmit switch (col. 6 lines 14-17) which further indicates the setting or assignment of a combination of the configuration switches to define a code signal configuration. Tsui further teaches storing of the code configuration in memory (col. 6 lines 13-14). Tsui is however not explicit in teaching reading the identified code signal configuration from the configuration switches during the learn mode but one skilled in the art recognizes that it is obvious to read the identified code signal configuration from the configuration switches during the learn mode because the switches are assign to learnt code and use to select the transmitter configuration (col. 6 lines 55-58).

It would have been obvious to one of ordinary skill in the art to read the identified code signal configuration from the configuration switches during the learn mode in Tsui because Tsui suggests retrieving the learnt code by the switch selection and one skilled in the art recognizes that it is obvious to read the identified code signal configuration from the configuration switches during the learn mode because the switches are assign to learnt code and use to select the transmitter configuration.

Regarding claims 17-18, Tsui teaches the use of switches to set the transmitting parameters of the transmitter (col. 6 lines 14-17) but is not explicit in teaching the combination of the configuration settings comprises a security code. One skilled in the art recognizes the uses

of the switches to retrieve the transmitter parameters constitute a measure of security because the transmitter is configurable only by a person who knows the configuration settings of the switches.

It would have been obvious to one of ordinary skill in the art for the combination of the configuration settings comprises a security code in Tsui because Tsui suggests the use of switches to set the transmitting parameters of the transmitter and one skilled in the art recognizes the uses of the switches to retrieve the transmitter parameters constitute a measure of security because the transmitter is configurable only by a person who knows the configuration settings of the switches.

Regarding claim 19, Tsui teaches a code learning apparatus comprises a plurality of user input devices (template transmitter, col. 6 lines 3-4), the method further comprising the steps of identifying one of the transmit switches and storing a code signal configuration in a memory location associated with the identified transmit switch as indicated in the flow chart (figure 6).

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsui U.S patent 6249673 in view of Fischer et al. U.S patent 5552641.

Regarding claim 7, Tsui teaches the transmitter transmits various codes at different frequencies (col. 2 lines 54-60) but is silent on teaching a first and second transmitter. Fischer et

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al. in an art related remote control transmitter device teaches a transmitter with a first and second transmitter (col. 5 lines 15-18) in order to facilitate the transmission at various channels.

It would have been obvious to one of ordinary skill in the art for the transmitter to have a first and second transmitter in Tsui as evidenced by Fischer et al. because Tsui suggests the transmitter transmits various codes at different frequencies and Fischer et al. teaches a transmitter with a first and second transmitter in order to facilitate the transmission at various channels.

Claim 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsui U.S patent 6249673 in view of Tsui U.S Patent 6556813 and further in view of Allen et al. U.S Patent 6366198.

Regarding claim 11, Tsui teaches the transmitter having a learning mode (figure 6) but is not explicit in teaching the depressing a user input for a predetermined period of time in order to place the transmitter in a learn mode. Allen et al. in an art related transmitter device invention teaches transmitter entering a learning mode depressing a user input for a predetermined period of time in order to place the transmitter in a learn mode (col. 3 lines 44-47).

It would have been obvious to one of ordinary skill in the art to depress a user input for a predetermined period of time in order to place the transmitter in a learn mode in Tsui as evidenced by Allen et al. because Tsui suggests placing the transmitter in a learning mode and Allen et al. teaches a method of placing a transmitter in a learning mode by depressing a user input for a predetermined period of time.

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Regarding claims 12-15, Tsui (U.S patent 6249673) teaches the switch settings are used to identify the selected transmitter to be emulated, the code format, the modulation format and the transmission frequency (col. 6 lines 1-20).

Claims 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsui U.S patent 6249673 over Heitschel et al. U.S Patent 4750118.

Regarding claim 20, Tsui teaches learning apparatus comprising a template transmitter (col. 6 lines 1-3). Tsui further teaches the transmitter operating in the radio frequency range (col. 5 line 17) but is silent on teaching identifying the transmit switch user during a transmit mode reading from the memory the code signal configuration associated with the identified user input device; and transmitting a signal in accordance with the code signal configuration read from the memory. Heitschel et al. in an art related invention in the same field of endeavor of transmitters teaches a learning apparatus(41) comprising a method of identifying one of the user input devices during a transmit mode (col. 3 lines 9-12) and transmitting a signal tin accordance with the code signal configuration read from the memory (col. 3 lines 65- col. 4 line 5).

It would have been obvious to one of ordinary skill in the art to identify the transmit switch during a transmit mode reading from the memory the code signal configuration associated with the identified user input device; and transmitting a signal in accordance with the code signal configuration read from the memory in Tsui as evidenced by Heitschel et al. because Tsui suggests a learning apparatus for learning transmitter code in memory and Heitschel et al. teaches a learning apparatus comprising a method of identifying one of the user input devices during a transmit mode and transmitting a signal tin accordance with the code signal

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configuration read from the memory in order to enable an learning apparatus to learn various transmitter.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vernal U. Brown whose telephone number is 571-272-3060. The examiner can normally be reached on 8:30-7:00 Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Horabik can be reached on 571-272-3068. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vernal Brown June 26, 2005

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